

# Zhan Yu

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## EDUCATION

### University of Wisconsin-Madison

09/2019 – 05/2023(expected)

#### Bachelor of Science in **Computer Science**

Madison, WI

- **GPA:** 3.85/4.0
- **Core Course:** Programming III, Artificial Intelligence, Operating System, Data Structure and Algorithm, DataBase, Computer Networks, Data Programming, Data Model, Linear Algebra

## EXPERIENCE

### SenseTime

05/2021 – 09/2021

#### Software Engineer Intern

- Expanded backend modules on tracking more than 500 daily Enterprise Didi (Uber-like) orders to have better management, based on **SSM** framework (**Spring, Spring MVC, MyBatis**).
- Optimized employee information module on Enterprise Wechat by building **RESTful** APIs.
- Built responsive interfaces for company reservation system, such as user authentication and visitor/vehicle appointment by **React** with **Redux** to better manage the data flow and state sharing during development.
- Simplified user authentication process by using **Passport** to integrate local authentication, which increased user login efficiency by 30%.
- Ensured the security of identity verification during user login by using the verification method from Alibaba cloud service and **Redis** cache.
- Developed major functionalities of company reservation system including reservation of parking space, visitor appointment update, etc. and managed user data by **SSM** framework (**Spring, Spring MVC, MyBatis**).
- Ensured the stability of the system by using **Jest** and **Enzyme** to do unit test on React components and **Postman** with **Newman** to do interface test during website development.

## PROJECTS

### Programmer Communication Platform

01/2021 – 05/2021

- Integrated **SpringEmail** and **Kaptcha** to configure verification code during login and send activation email during register, ensuring the security and effectiveness of each account.
- Utilized **Ajax** and **Trie** on post publishing to asynchronous process requests and filter sensitive words.
- Integrated **Kafka** with **MQ** which has great performance on functionalities with high access frequency, such as giving likes and commenting, to improve the response speed of the platform.
- Built post search module by **Elasticsearch** to keyword searching on posts of the whole platform.
- Improved CPU throughput and read/write efficiency by local cache **Caffeine** and **Redis**.

### Todo Management Application

08/2021 — 09/2021

- Utilized **React** and **Java Spring Boot** to support create, update and delete Todo item functionalities.
- Configured **Basic Authentication** RESTful service and **JWT** in Spring Security to realize user login/logout.
- Combined Java, **JPA** and **Hibernate** for data storage and modification with **REST** API.

### Communication Platform for Epidemic

10/2020 – 12/2020

- Implemented responsive layout and user interaction by **Bootstrap 5** and **jQuery**.
- Utilized **NodeJS** and **Express** to build RESTful routing on the server side to handle user requests.
- Managed and stored appointment/user data by utilizing **Mongoose** and **MongoDB Atlas** database.

### Web Crawler

08/2020 – 10/2020

- Utilized **Python** and **BeautifulSoup** to crawl more than 60 news titles, profiles, labels and other information on the BBC News Home page, and classify them into **MySQL** database.
- Utilized **Pandas**, **Matplotlib** to monitor news features per month and analyze top 5 hot topics.

## SKILLS

**Programming Language :** Java, Python, C, SQL, JavaScript, HTML/CSS, R

**Frameworks :** Spring Boot, MyBatis, Node.js, Express.js, React, jQuery, Bootstrap

**Tools :** MySQL, MongoDB, Redis, JUnit 4, Git, Linux, Postman, Kafka, Docker